Contents

Alberte, R.S., s. Dennison, W.C. 137
Andrews, R.H., Petney, T.N., Bull, C.M.: Niche Changes Between Parasite Populations: An Example from Ticks on Reptiles 77
Andrews, R.H., s. Petney, T.N. 364
Baasch, R., s. Willert, D.J. von, et al. 21
Baruch, Z.: Patterns of Energy Content in Plants from the Venezuelan Paramos 47
Bengtsson, G.: Patterns of Amino Acid Utilization by Aquatic Hypnomycetes 355
Berger, J., s. Gates, M.A., et al. 145
Bosatta, E.: Acidification and Release of Nutrients from Organic Matter – a Model Analysis 30
Boyden, T.C.: The Pollination Biology of *Calypso bulbosa* var. *americana* (Orchidaceae): Initial Deception of Bumblebee Visitors 178
Bradley, R.: Digestion Time and Reemergence in the Desert Grassland Scorpion *Paruroctonus utahensis* (Williams) (Scorpionida, Vaejovidae) 316
Brinckmann, E., s. Willert, D.J. von, et al. 21
Brown, J.H., s. Petersen, C., et al. 7
Bull, C.M., s. Andrews, R.H., et al. 77
Bullock, St.H.: Population Structure and Reproduction in the Neotropical Dioecious Tree *Compsoneura sprucei* . . 238
Bultman, Th.L., Uetz, G.W.: Abundance and Community Structure of Forest Floor Spiders Following Litter Manipulation 34
Cairns, S.C.: The Life Cycle Energetics of *Rhopaea verreauxi* (Coleoptera: Scarabaeidae) 62
Carothers, J.H.: Effects of Trophic Morphology and Behavior on Foraging Rates of Three Hawaiian Honeycreepers 157
Carrol, C.R., s. Risch, S.J. 114
Chiariello, N., s. Field, C., et al. 414
Corpuz, G.C., s. Perron, F.E. 319
Coyer, J.A., s. Schmitt, R.J. 369
Dennison, W.C., Alberte, R.S.: Photosynthetic Responses of *Zostera marine* L. (Eelgrass) to in situ Manipulations of Light Intensity 137
Dover, C. Van, s. Lounibos, L.P., et al. 160
Elkins, N.Z., Whitford, W.G.: The Role of Microarthropods and Nematodes in Decomposition in a Semi-arid Ecosystem 303
Eller, B.M., s. Willert, D.J. von, et al. 21
Ettershank, G., s. Whitford, W.G., et al. 298
Fadlallah, Y.H.: Reproductive Ecology of the Coral *Astrangia lajollaensis*: Sexual and Asexual Patterns in a Kelp Forest Habitat 379
Field, C., Chiariello, N., Williams, W.E.: Determinants of Leaf Temperature in California *Mimulus* Species at Different Altitudes 414
Foster, W.A., Treherne, J.E.: Reproductive Behaviour of the Ocean Skater *Halobates robustus* (Hemiptera: Gerridae) in the Galapagos Islands 202
Gardetto, P.E., s. Kemp, P.R. 149
Gates, M.A., Rogerson, A., Berger, J.: Dry to Wet Weight Biomass Conversion Constant for *Tetrahymena elliotti* (Ciliophora, Protoza) 145
Greene, Ch.H., Schoener, A.: Succession on Marine Hard Substrata: A Fixed Lottery 289
Hirose, T., Kachi, N.: Critical Plant Size for Flowering in Biennials with Special Reference to their Distribution in a Sand Dune System 281
Hughes, A.L., Hughes, M.K.: Male Size, Mating Success, and Breeding Habitat Partitioning in the Whitespotted Sawyer *Monochamus scutellatus* (Say) (Coleoptera: Cerambycidae) 258
Hughes, M.K., s. Hughes, A.L. 258
Humpesch, U.H.: Effect of Fluctuating Temperature on the Duration of Embryonic Development in Two *Ecdyonurus* spp. and *Rhithrogena cf. hybrida* (Ephemeroptera) from Austrian Streams 285
Hutchins, H.E., Lanner, R.M.: The Central Role of Clark's Nutcracker in the Dispersal and Establishment of Whitebark Pine 192
Iverson, J.B.: Biomass in Turtle Populations: A Neglected Subject 69
Jahner, D., s. Tenhunen, J.D., et al. 165
Joern, A., Rudd, N.T.: Impact of Predation by the Robber Fly *Proctacanthus milbertii* (diptera: asilidae) on Grasshopper (Orthoptera: acrididae) Populations 42
Kachi, N., s. Hirose, T. 281
Keast, A., s. McAllister Eadie, J. 225
Kemp, P.R., Gardetto, P.E.: Photosynthetic Pathway Types of Evergreen Rosette Plants (Liliaceae) of the Chihuahuan Desert 149
Kodric-Brown, A., s. Petersen, C., et al. 7
Koene, P., s. Sutherland, W.J. 108
Körner, H.K.: Countershading by Physiological Colour Change in the Fish Louse *Anilocra physodes* L. (Crustacea: Isopoda) 248
Konecny, M.J., Lanciani, C.A., White, Ch.P.: Habitat-Specific Variation in Eyespot Size of a Benthic Cladoceran (Short Communication) 279
Lanciani, C.A., s. Konecny, M.J., et al. 279
Lange, O.L., s. Tenhunen, J.D., et al. 165, 217
Lanner, R.M., s. Hutchins, H.E. 192
Larson, D.W.: Environmental Stress and *Umbilicaria lichens*: the Effect of High Temperature Pretreatments 102
Larson, D.W.: Environmental Stress and *Umbilicaria* Lichens: The Effect of Subzero Temperature Pretreatments 268
Louda, S.M.: Inflorescence Spiders: A Cost/Benefit Analysis for the Host Plant, *Haplopappus venetus* Blake (Asteraceae) 185
Lounibos, L.P., Dover, C. Van, O'Meara, G.F.: Fecundity, Autogeny, and the Larval Environment of the Pitcher-Plant Mosquito, *Wyeomyia smithii* 160
Lyon, G.L., s. Stephenson, R.L. 110
Magnhagen, C., Wiederholm, A.M.: Food Selectivity Versus Prey Availability: a Study Using the Marine Fish *Pomatoschistus microps* 311
Marian, M.P., Pandian, T.J., Muthukrishnan, J.: Energy Balance in *Speliphron violaceum* (Hymenoptera) and Use of Meconium Weight as an Index of Bioenergetics Components 264
May, P.G.: Secondary Succession and Breeding Bird Community Structure: Patterns of Resource Utilization . . 208
McAllister Eadie, J., Keast, A.: Do Goldeneye and Perch Compete for Food? 225
Meinzer, F.C.: Models of Steady-State and Dynamic Gas Exchange Responses to Vapor Pressure and Light in Douglas Fir (*Pseudotsuga menziesii*) *Saplings* 403
Messina, F.J.: Food Plant Choices of Two Goldenrod Beetles: Relation to Plant Quality 342
Moreno, C.A., Sutherland, J.P.: Physical and Biological Processes in a *Macrocystis pyrifera* Community Near Valdivia, Chile 1
Muthukrishnan, J., s. Marian, M.P., et al. 264
Nentwig, W.: Epigeic Spiders, Their Potential Prey and Competitors: Relationship Between Size and Frequency . . 130
O'Meara, G.F., s. Lounibos, L.P., et al. 160
Osteryoung, K., s. Pearcy, R.W., et al. 333

Pandian, T.J., s. Marian, M.P., et al. 264
Pearcy, R.W., Osteryoung, K., Randall, D.: Carbon Dioxide Exchange Characteristics of C_4 Hawaiian *Euphorbia* Species Native to Diverse Habitats 333
Pearcy, R.W., s. Toft, N.L. 170
Perron, F.E., Corpuz, G.C.: Costs of Parental Care in the Gastropod *Conus pennaceus*: Age-Specific Changes and Physical Constraints 319
Petersen, C., Brown, J.H., Kodric-Brown, A.: An Experimental Study of Floral Display and Fruit Set in *Chilopsis linearis* (Bignoniaceae) 7
Petney, T.N., Andrews, R.H.: The Influence of Similar Aggregation Pheromones on the Microhabitat Choice of Two Parapatric Species of Reptile Tick (Acari: Ixodidae) . . 364
Petney, T.N., s. Andrews, R.H., et al. 77
Randall, D., s. Pearcy, R.W., et al. 333
Rehder, H.: Nitrogen Relations of Ruderal Communities (Rumicion alpini) in the Northern Calcareous Alps . . 120
Richards, L.J.: Prey Selection by an Intertidal Beetle: Field Test of an Optimal Diet Model 325
Risch, S.J., Carrol, C.R.: The Ecological Role of Ants in Two Mexican Agroecosystems 114
Rogerson, A., s. Gates, M.A., et al. 145
Rudd, N.T., s. Joern, A. 42
Rundel, Ph.W.: Nitrogen Utilization Efficiencies in Mediterranean-climate Shrubs of California and Chile 409
Sato, T.: Phenology and Wintering Capacity of Sporophytes and Gametophytes of Ferns Native to Northern Japan 53
Schmitt, R.J., Coyer, J.A.: The Foraging Ecology of Sympatric Marine Fish in the Genus *Embiotoca* (Embiotocidae): Importance of Foraging Behavior in Prey Size Selection 369
Schoener, A., s. Greene, Ch.H. 289
Shiotsu, Y., s. Tsubaki, Y. 12
Smith, A.P., Young, T.P.: The Cost of Reproduction in *Senecio keniodendron*, a Giant Rosette Species of Mt. Kenya 243
Snow, A.A.: Pollination Intensity and Potential Seed Set in *Passiflora vitifolia* 231
Steinberger, Y., s. Whitford, W.G., et al. 298
Stephenson, R.L., Lyon, G.L.: Carbon-13 Depletion in an Estuarine Bivalve: Detection of Marine and Terrestrial Food Sources 110
Stichler, W., s. Tenhunen, J.D., et al. 217
Sutherland, J.P., s. Moreno, C.A. 1
Sutherland, W.J., Koene, P.: Field Estimates of the Strength of Interference Between Oystercatchers Haematopus ostralegus 108
Tabashnik, B.E.: Responses of Pest and Non-Pest *Colias* Butterfly Larvae to Intraspecific Variation in Leaf Nitrogen and Water Content 389
Tenhunen, J.D., Lange, O.L., Jahner, D.: The Control by Atmospheric Factors and Water Stress of Midday Stomatal Closure in *Arbutus unedo* Growing in a Natural Macchia 165
Tenhunen, J.D., Tenhunen, L.C., Ziegler, H., Stichler, W., Lange, O.L.: Variation in Carbon Isotope Ratios of Sempervivoideae Species from Different Habitats of Teneriffe in the Spring 217
Tenhunen, L.C., s. Tenhunen, J.D., et al. 217
Toft, N.L., Pearcy, R.W.: Gas Exchange Characteristics and Temperature Relations of Two Desert Annuals: A Comparison of a Winter-active and a Summer-active Species 170
Treherne, J.E., s. Foster, W.A. 202
Tsubaki, Y., Shiotsu, Y.: Group Feeding as a Strategy for Exploiting Food Resources in the Burnet Moth *Pryeria sinica* 12
Uetz, G.W., s. Bultman, Th.L. 34
Vareschi, E.: The Ecology of Lake Nakuru (Kenya). III. Abiotic Factors and Primary Production 81
Visser, M.: Prey Selection by the Three-Spined Stickleback (*Gasterosteus aculeatus L.*) 395
Waser, N.M.: A Comparison of Distances Flown by Different Visitors to Flowers of the Same Species 251
Wiederholm, A.M., s. Magnhagen, C. 311
Willert, D.J. von, Eller, B.M., Brinckmann, E., Baasch, R.: CO_2 Gas Exchange and Transpiration of *Welwitschia mirabilis* Hook. fil. in the Central Namib Desert 21
Williams, W.E., s. Field, C. et al. 414
White, Ch.P., s. Konecny, M.J., et al. 279
Whitford, W.G., Steinberger, Y., Ettershank, G.: Contributions of Subterranean Termites to the "Economy" of Chihuahuan Desert Ecosystems 298
Whitford, W.G., s. Elkins, N.Z. 303
Young, T.P., s. Smith, A.P. 243
Ziegler, H., s. Tenhunen, J.D., et al. 217

Indexed in Current Contents